

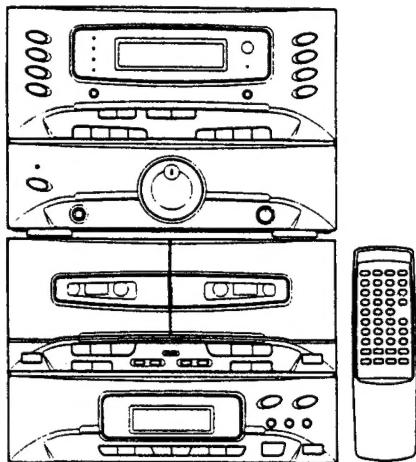
UHER

Reference 2000

AM/FM STEREO RECEIVER
CASSETTE PLAYER/RECORDER
3-DISC COMPACT DISC CHANGER



UHER-00320



SPECIFICATIONS

Power Source	230V/50Hz
Power Consumption	700 Watts
Output Power	120W x 2 (at 0.9% THD)

Tuner Section

Frequency Range	AM: 531-1620 kHz FM: 87.5-108 MHz
Intermediate Frequency	AM: 450 kHz FM: 12.7 MHz
Sensitivity	AM: 900 uV/M (at 1MHz) FM: 10 uV (at 98MHz)
Multiplex Separation	30 dB

Cassette Section

Tape Speed	1-7/8 IPS (4.75 P.S.)
Frequency Response	63 Hz - 12.5 kHz
Wow & Flutter	0.2% WRMS

Amplifier Section

Total Harmonic Distortion (1 kHz)	0.1%
Signal To Noise Ratio	70 dB
Output Power (at 0.9% THD)	120W x 2

Compact Disc Player Section

Channel Separation (1 kHz)	50 dB
Total Harmonic Distortion	0.1%
Signal To Noise Ratio	65 dB

Dimensions W= 279mm (11") H=394mm (15-1/2")
D= 311mm (12-1/4")

Weight 14.3 kgs (31.46 lbs)

SERVICE PUBLICATION

Note All the specifications and features are subject to change without notice

CD Adjustments

The following steps should be performed before attempting adjustments in the CD section.

1. Remove the turntable by sliding the Guide Plate outward. (See Fig. 9)
2. Disassemble the Base Cover by removing 2 screws. (See Fig. 9)

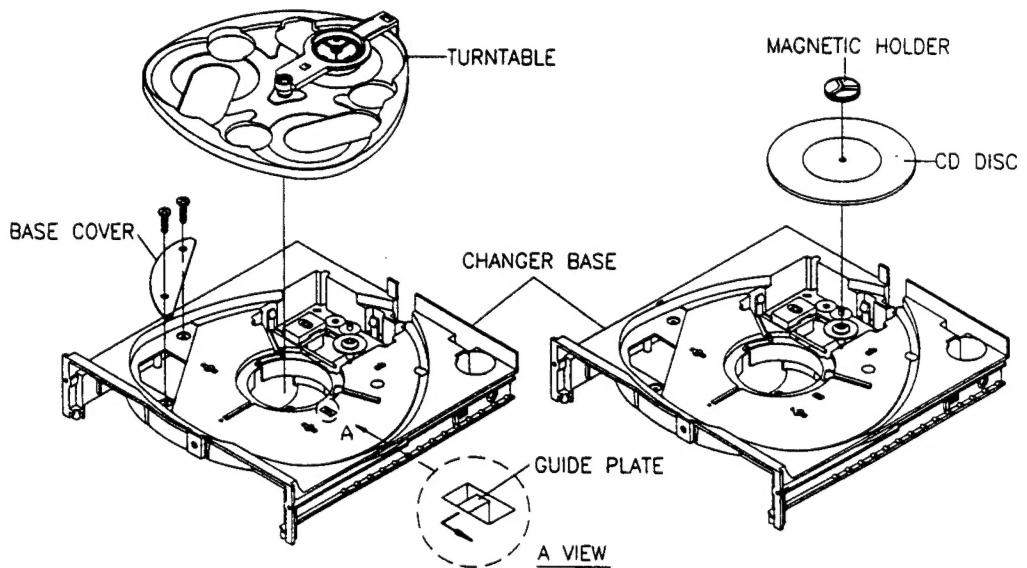


Figure 9

CAUTION:

The laser beam may always be active when the turntable is removed.

Use of controls for adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

The compact disc player should not be adjusted or repaired by anyone except properly qualified service personnel.

RF ADJUSTMENT

1. Connect CN08 to the power supply, and CD player in stop mode.
2. Connect the DC meter to CN10-.
3. Adjust VR01, for a reading of $0V \pm 20mV$. (See Fig. 10)

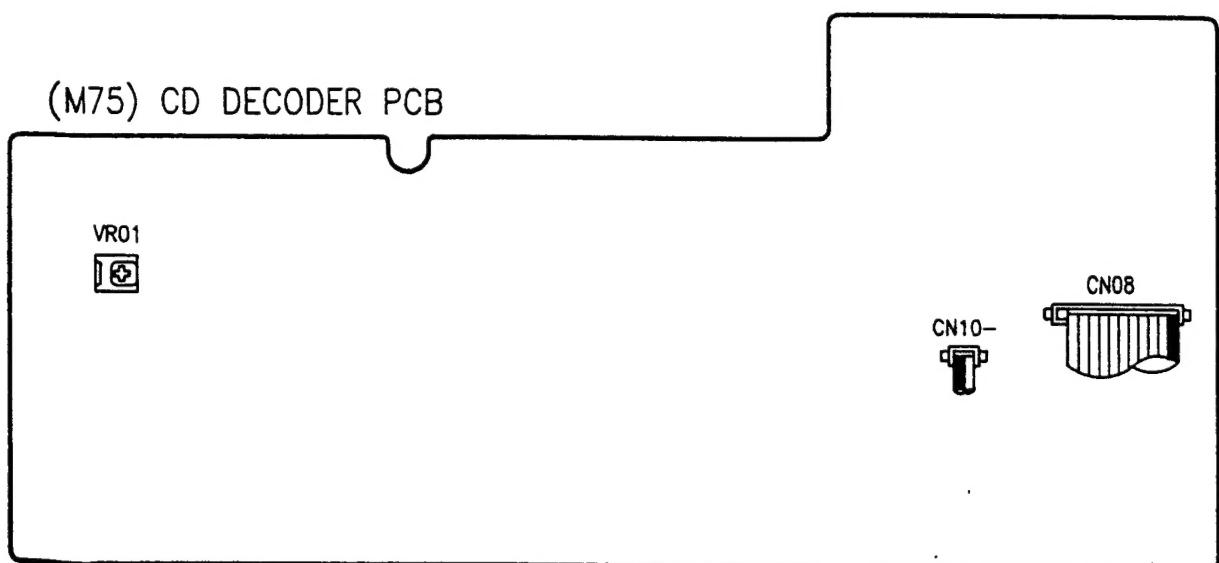
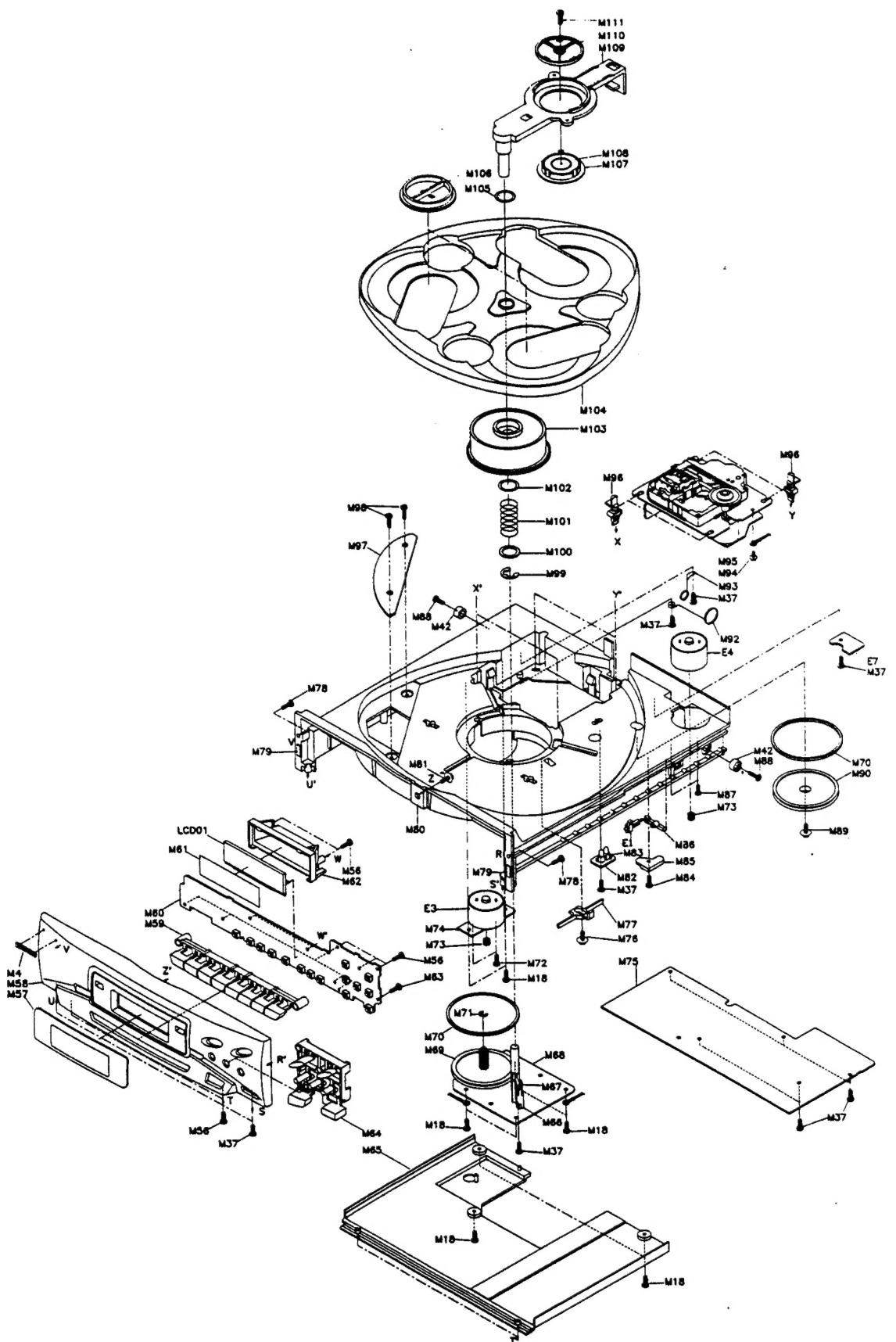
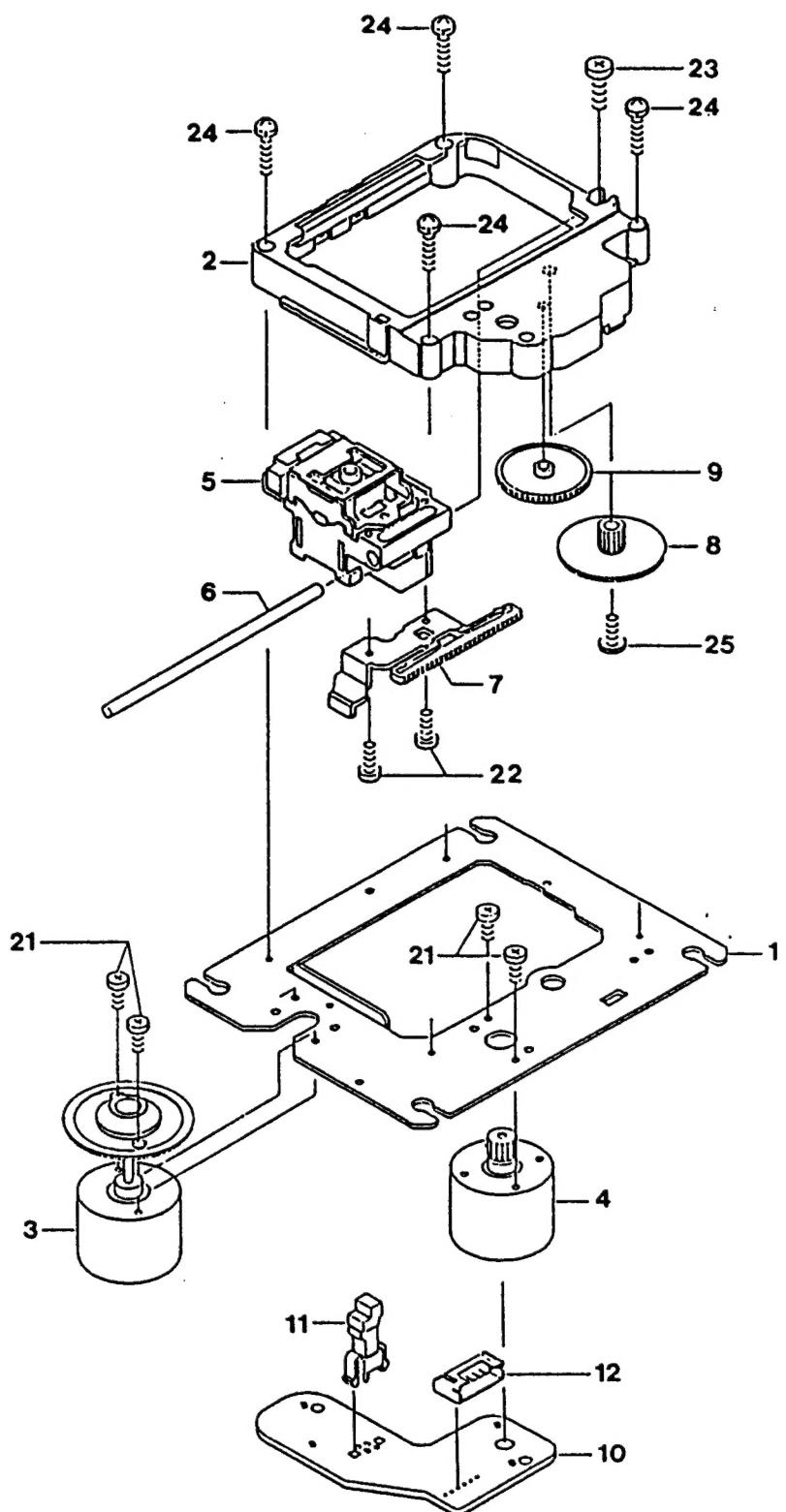


Figure 10

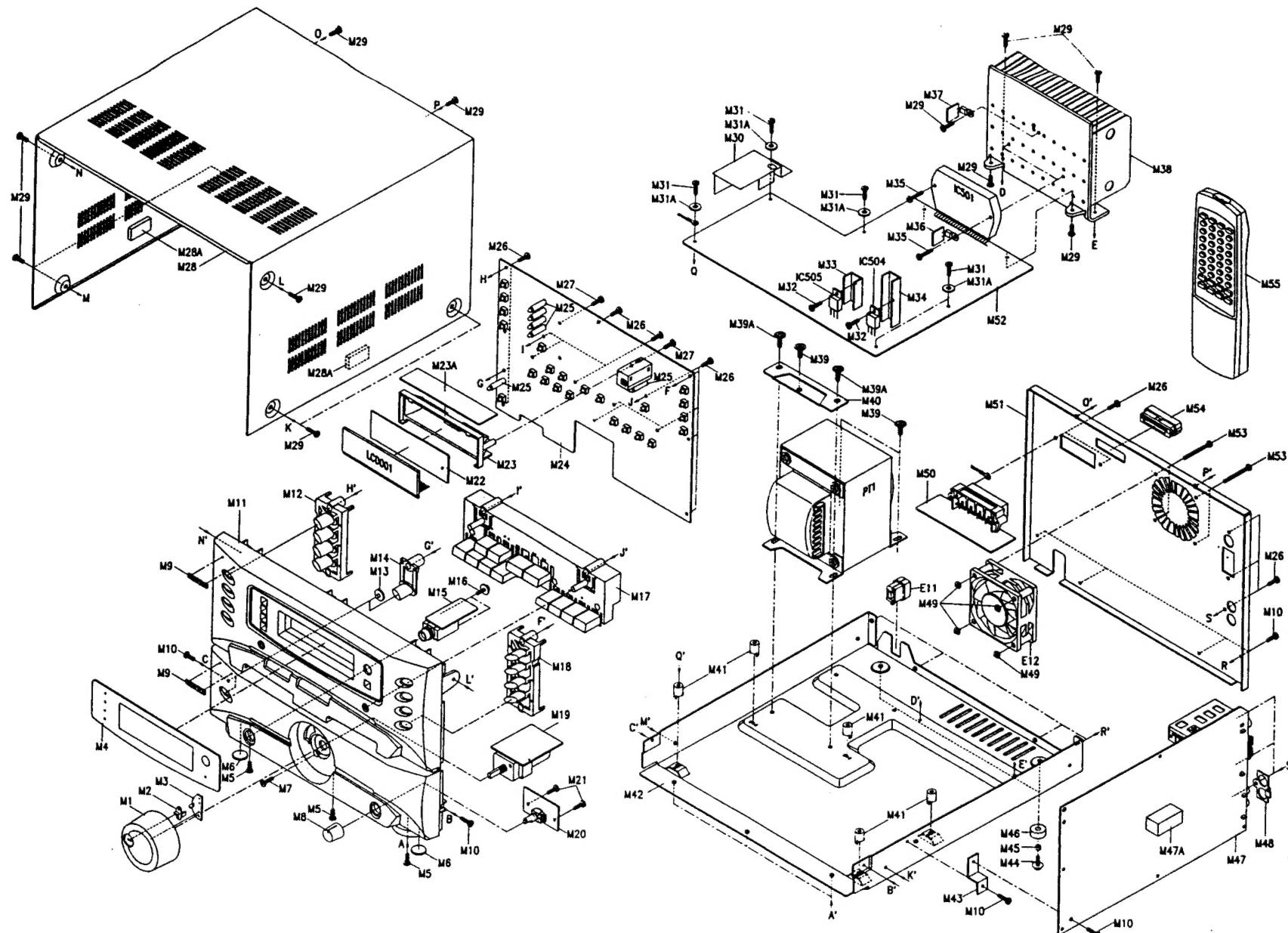
Mechanical Exploded View – CD



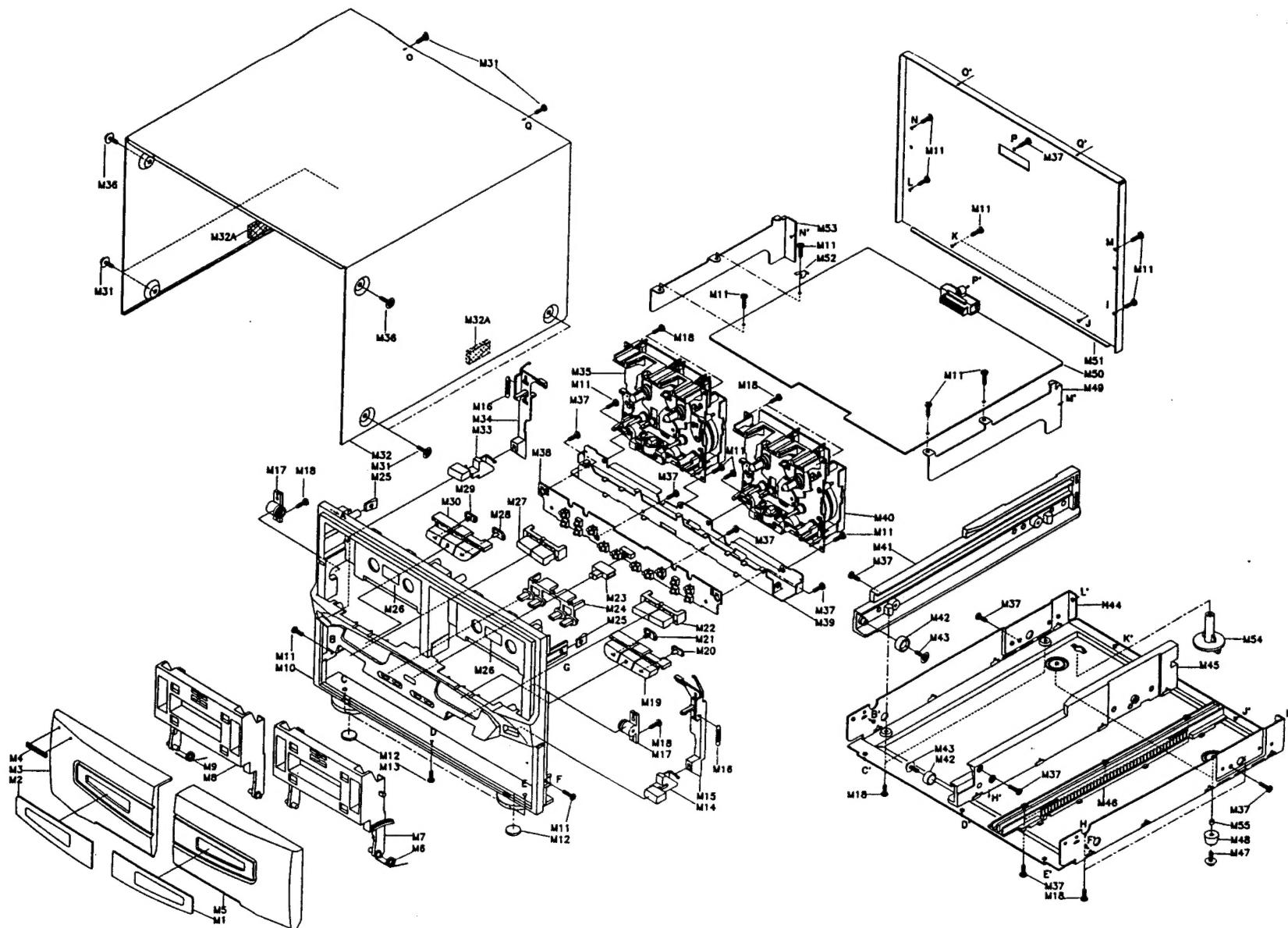
CD Deck Exploded View



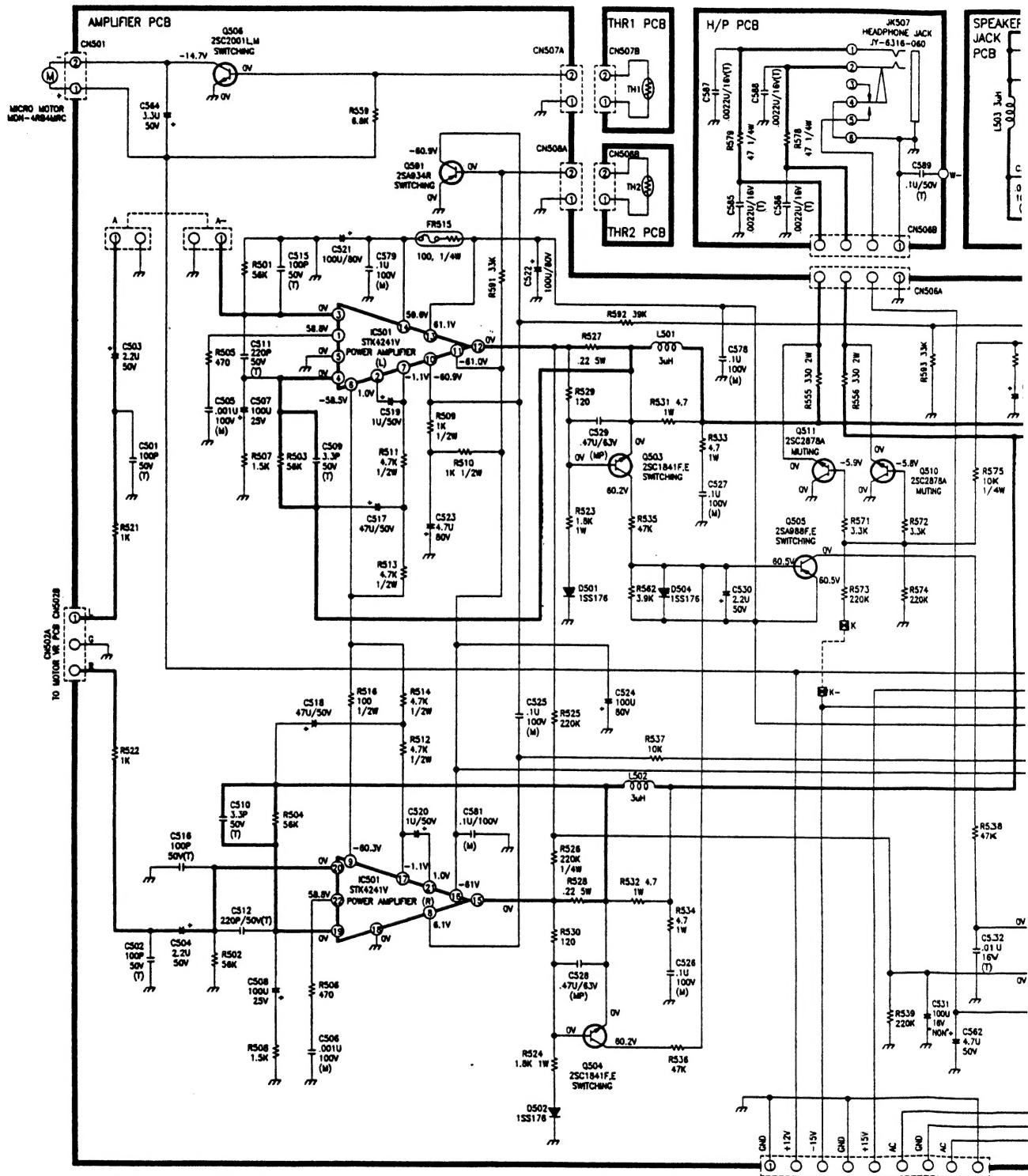
Mechanical Exploded View- Receiver



Mechanical Exploded View-Cassette



Schematic Diagram

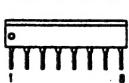


IC/TRANSISTORS CONNECTOR:

IC501 STK4241V



IC502 UPC1237MA



IC503 NM78L034



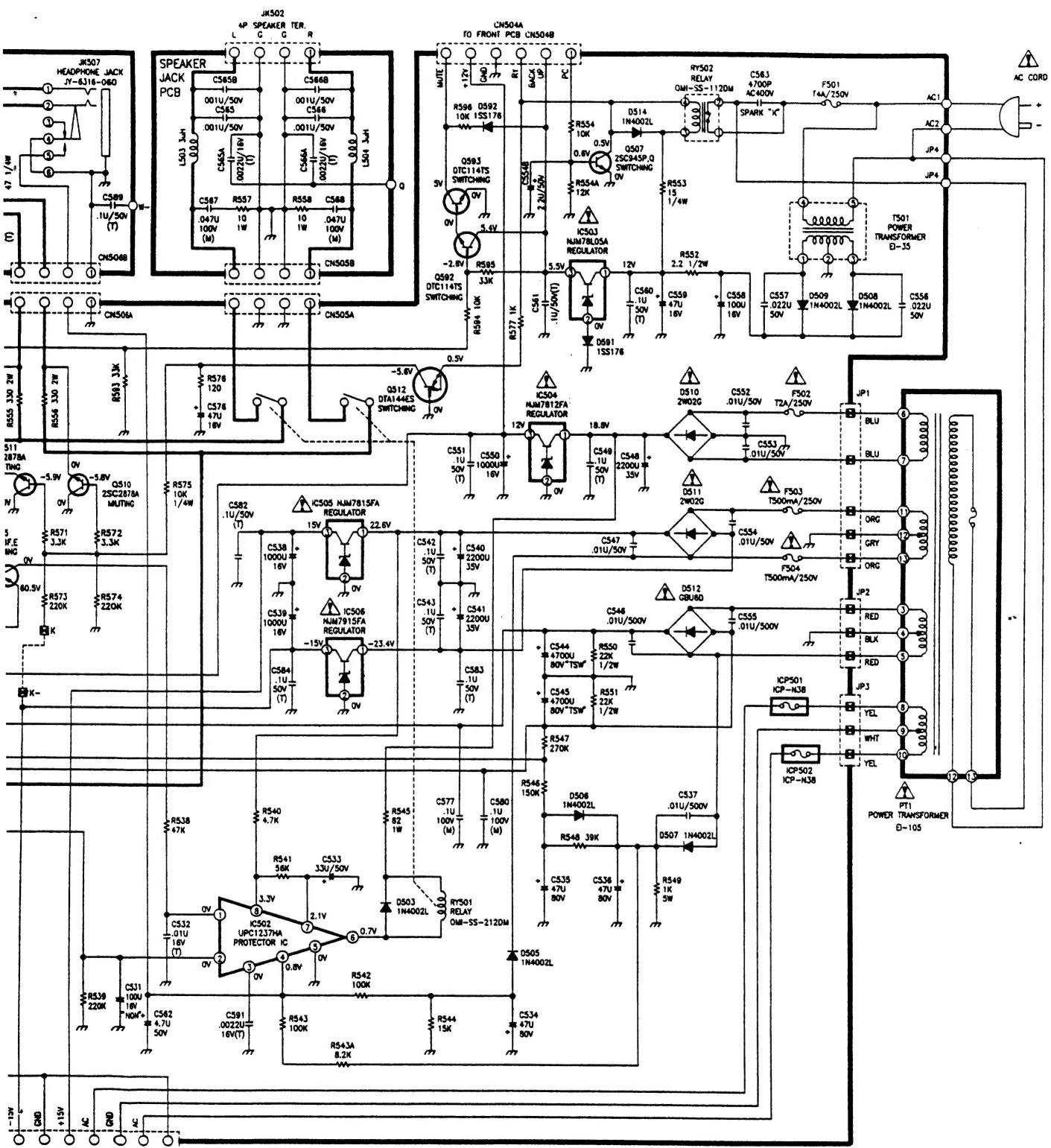
IC504 NJM7812FA
IC505 NJM7815FA
IC506 NJM7915FA



CN503A
TO TURNER PCB CN503B

2SA988F,E
2SC945P,Q
2SA834R
2SC2001L,M
2SC2878A
2SC1841F,E

Schematic Diagram - Amp.



SCHEMATIC NOTES:

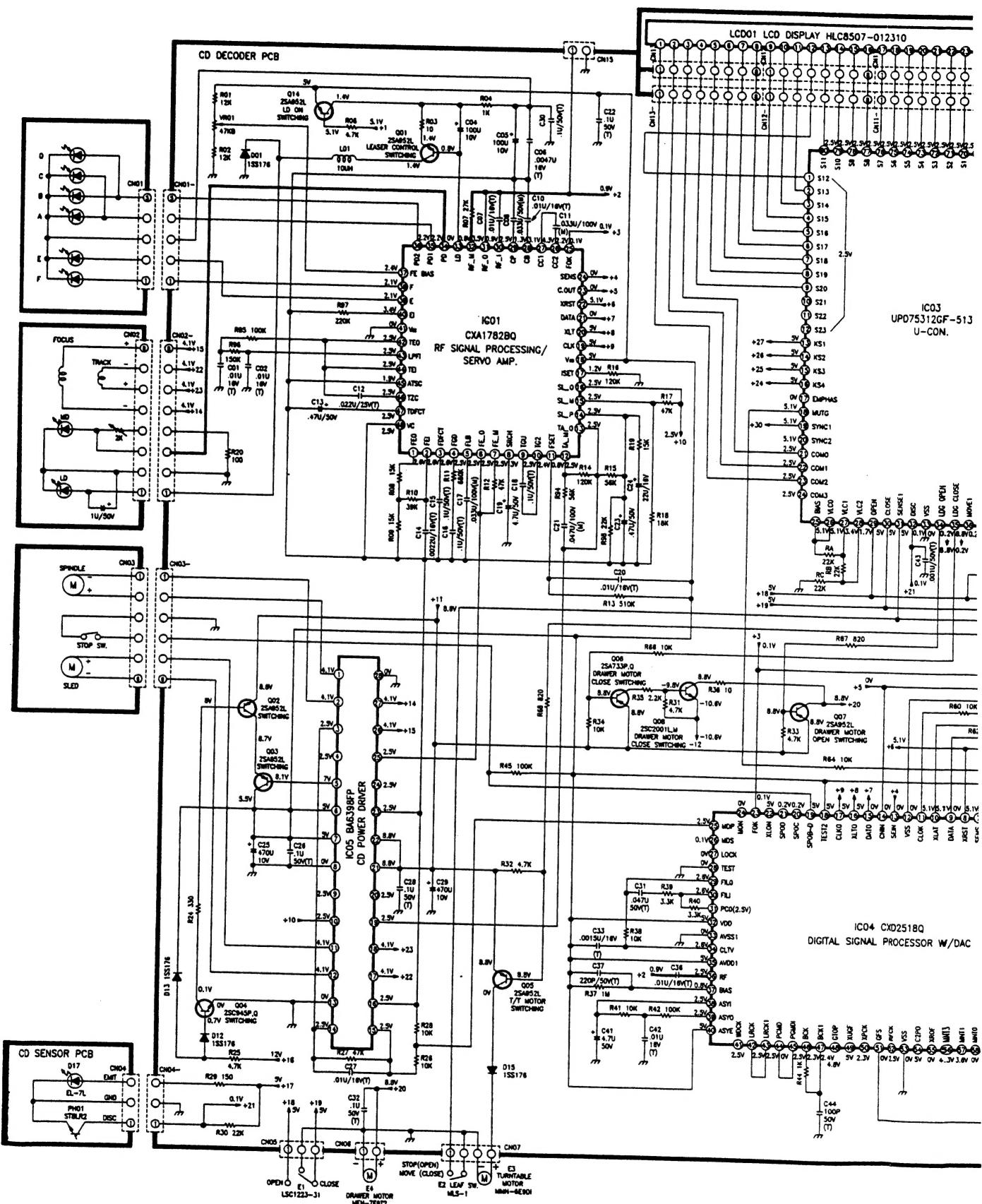
1. THE DC VOLTAGES WERE TAKEN WITH NO SIGNAL INPUT.
2. RESISTANCE VALUES ARE IN OHMS (K=1000, M=MEGOMH).
3. UNLESS OTHERWISE NOTED, ALL RESISTORS ARE 1/8 WATT CARBON FILM, $\pm 5\%$ TOLERANCE.
4. ALL VOLTAGES MEASURED FROM GROUND WITH A HIGH IMPEDANCE METER (10 MEGOMHS MIN).
5. (T)=MULTI-LAYER CERAMIC CAPACITOR.
6. REFER TO PARTS LIST FOR VOLTAGE RATINGS OF CAPACITORS.
7. =COMMON GROUND SYMBOL.
8. = INDICATES SIGNAL PATH OF CIRCUIT.
9. TO LOCATE CONNECTOR HOOKUPS MATCH THE ALPHA (OR NUMERIC) DESIGNATION TO THE CORRESPONDING ALPHA (OR NUMERIC) DESIGNATION (EXAMPLE: CONNECTOR A CONNECTS TO CONNECTOR A)

CN503A TO TUNER PCB CN503B

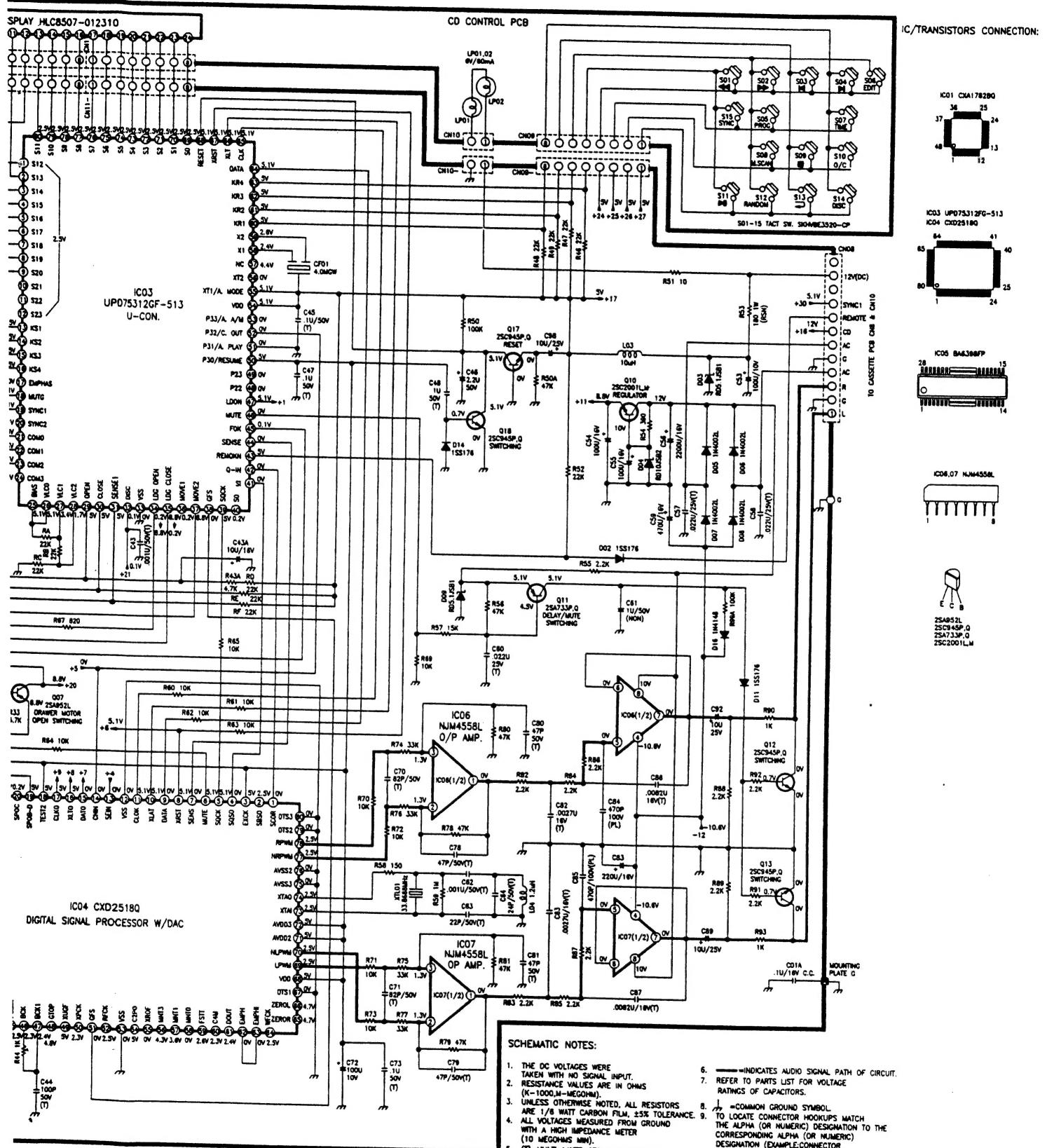
2SC1841F-E
2SC1841P-Q
2SC1841R
ISC2001LM
ISC2878A
ZSC1841F-E



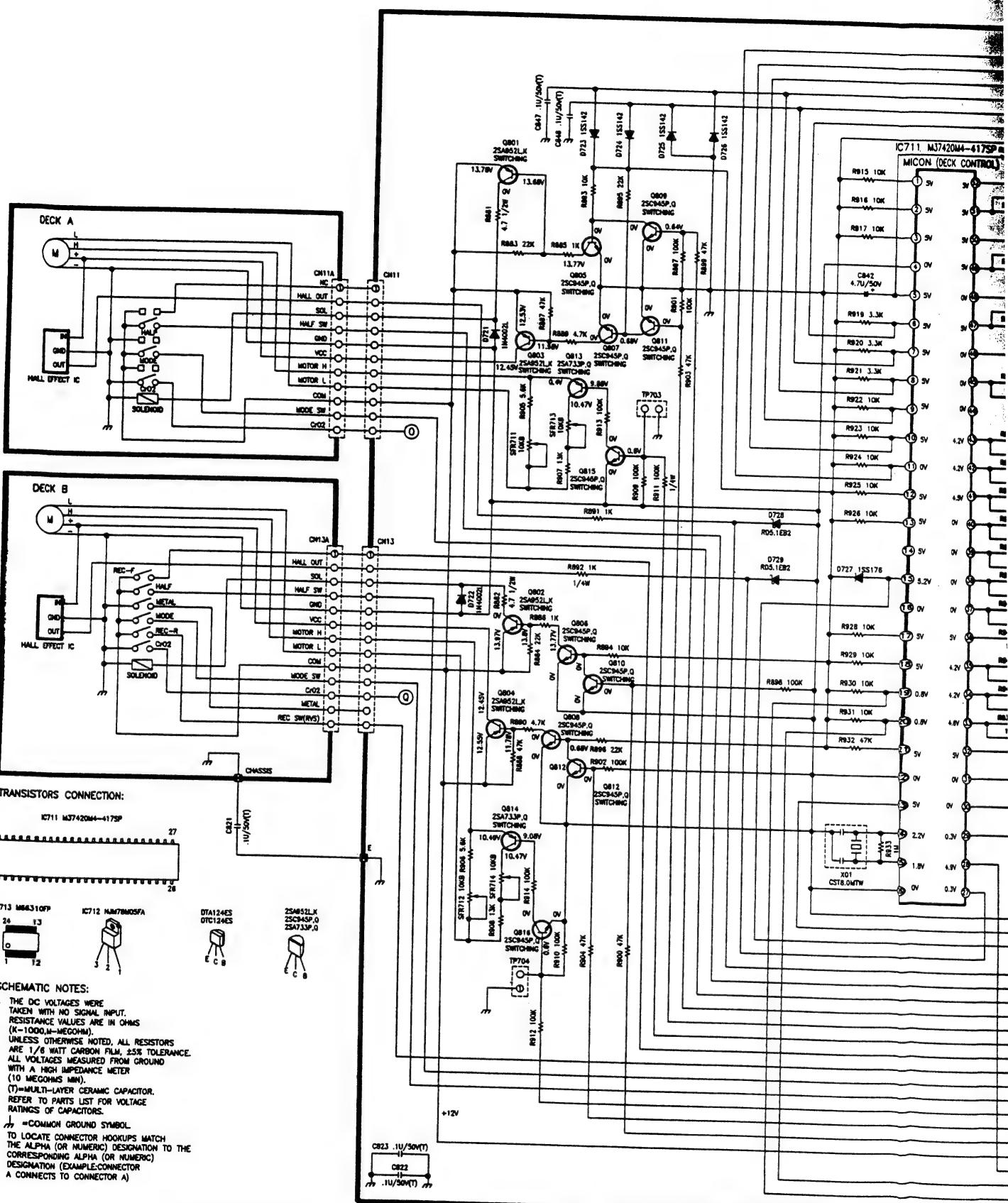
Schematic Diagrams



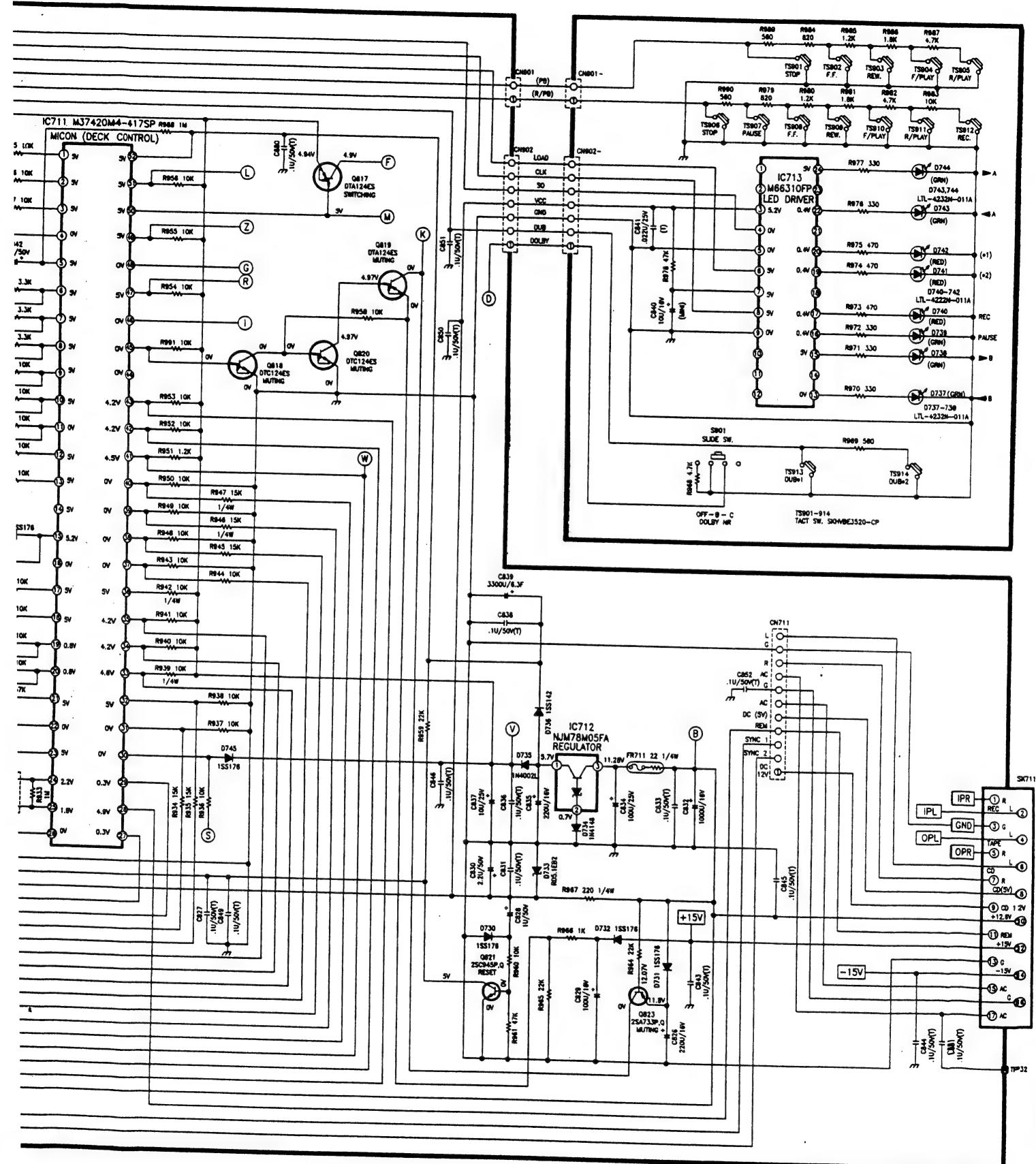
Schematic Diagram - CD



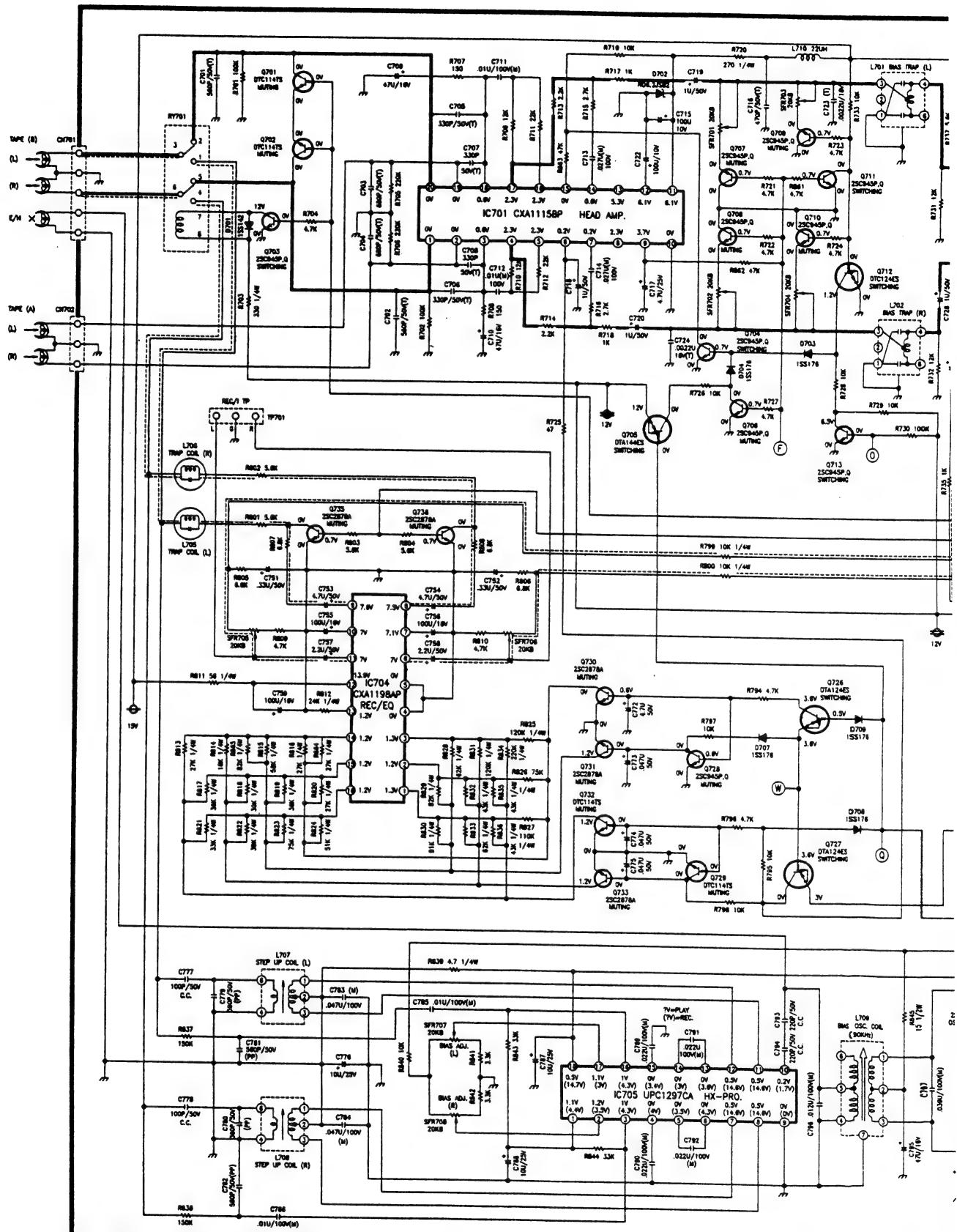
Schematic Diagram



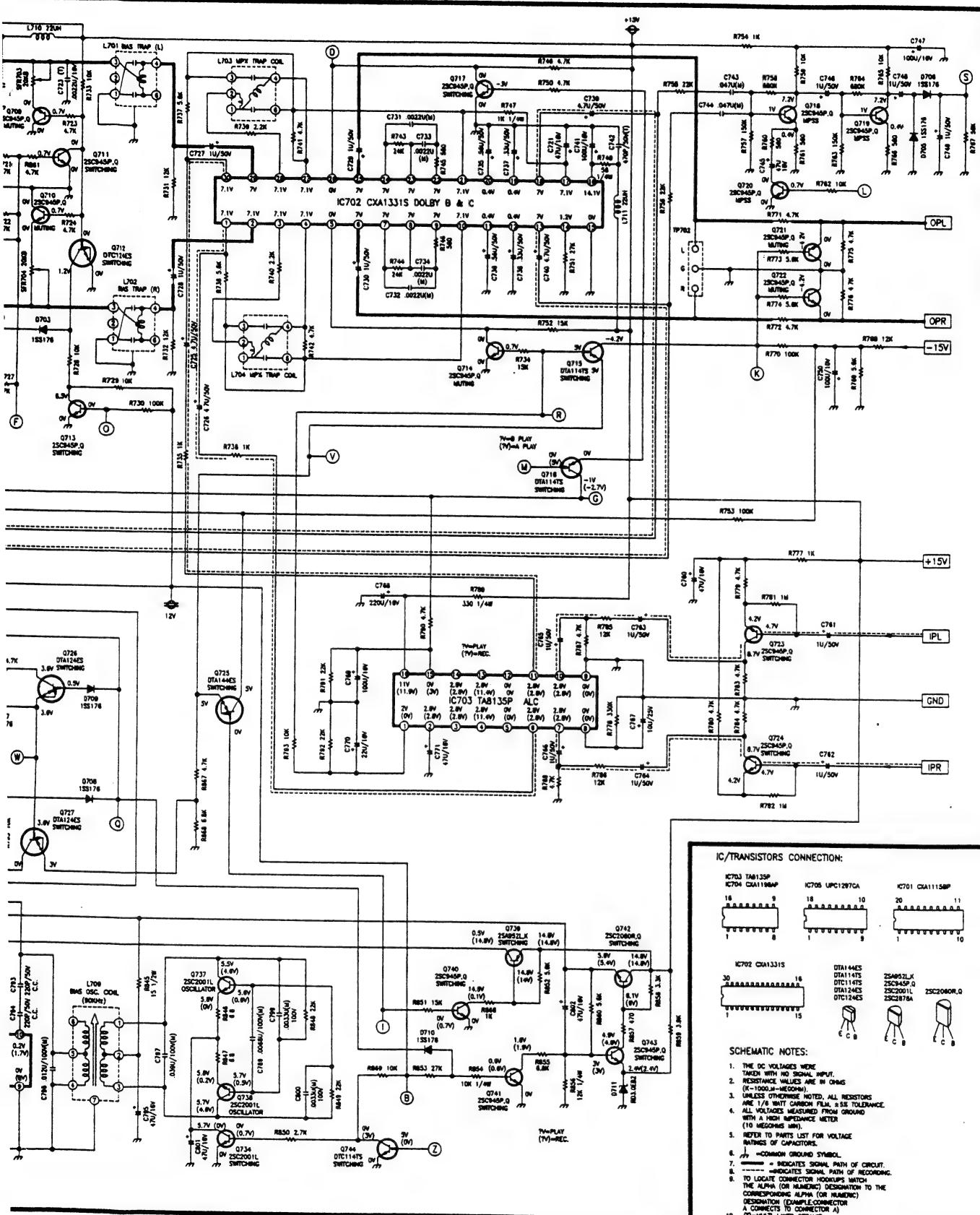
ematic Diagram – Cassette (2/2)



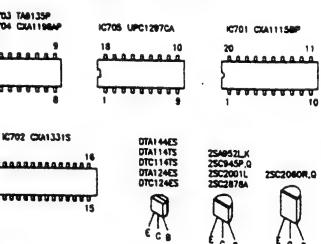
Schematic Diagram- Ca



atic Diagram- Cassette (1/2)



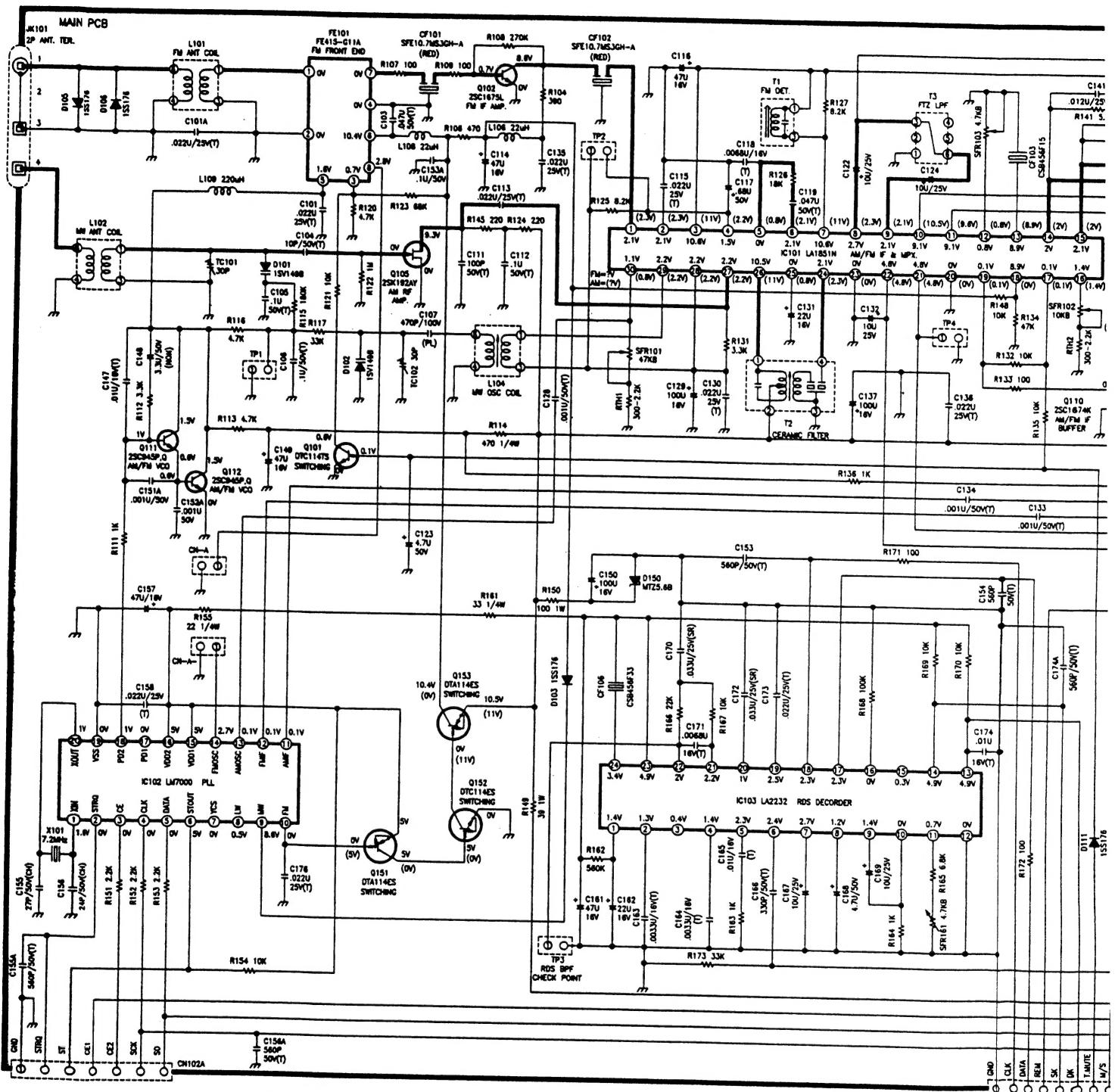
IC/TRANSISTORS CONNECTION:



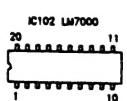
SCHEMATIC NOTES:

1. THE DC VOLTMETERS ARE TAKEN WITH NO SIGNAL INPUT.
 2. RESISTANCE VALUES ARE IN OHMS (K = 1000 M = MEGOHM).
 3. ALL VOLTAGES ARE IN VOLTS. ALL RESISTORS ARE 1/8 WATT CARBON FILM .5% TOLERANCE.
 4. ALL VOLTAGES MEASURED FROM GROUND UNLESS OTHERWISE NOTED.
 5. HIGH IMPEDANCE METER (10 MEGOHM).
 6. REFER TO PARTS LIST FOR VOLTAGE RATINGS OF CAPACITORS.
 7.  = COMMON GROUND SYMBOL.
 8. _____ = INDICATES SIGNAL PATH OF CIRCUIT.
 9. _____ = INDICATES SIGNAL PATH OF RECORDING.
 10. TO LOCATE CONNECTOR, REFER TO PARTS LIST.
 11. THE ALPHA (OR NUMERIC) DESIGNATION IS THE CORRESPONDING (EXAMPLE: CONNECTOR A, CIRCUIT BOARD, PART A)
 12. (T) = MULTI-LAYER PLATE

Schematic Di

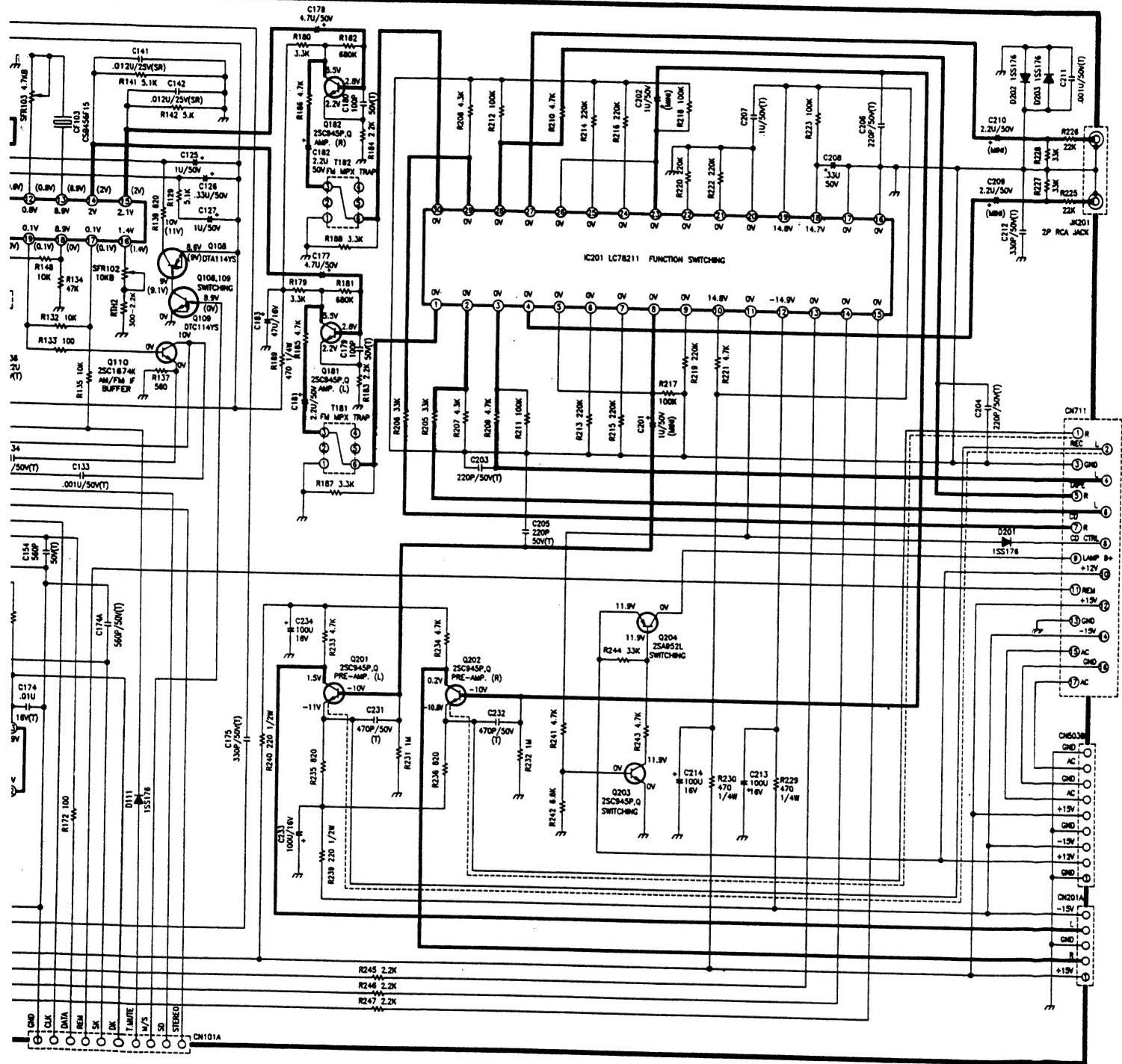


IC/TRANSISTORS CONNECTION:



DTA114S
DTC114S
DTA114S
DTC114S
DTC114S

Schematic Diagram – Main



SCHEMATIC NOTES:

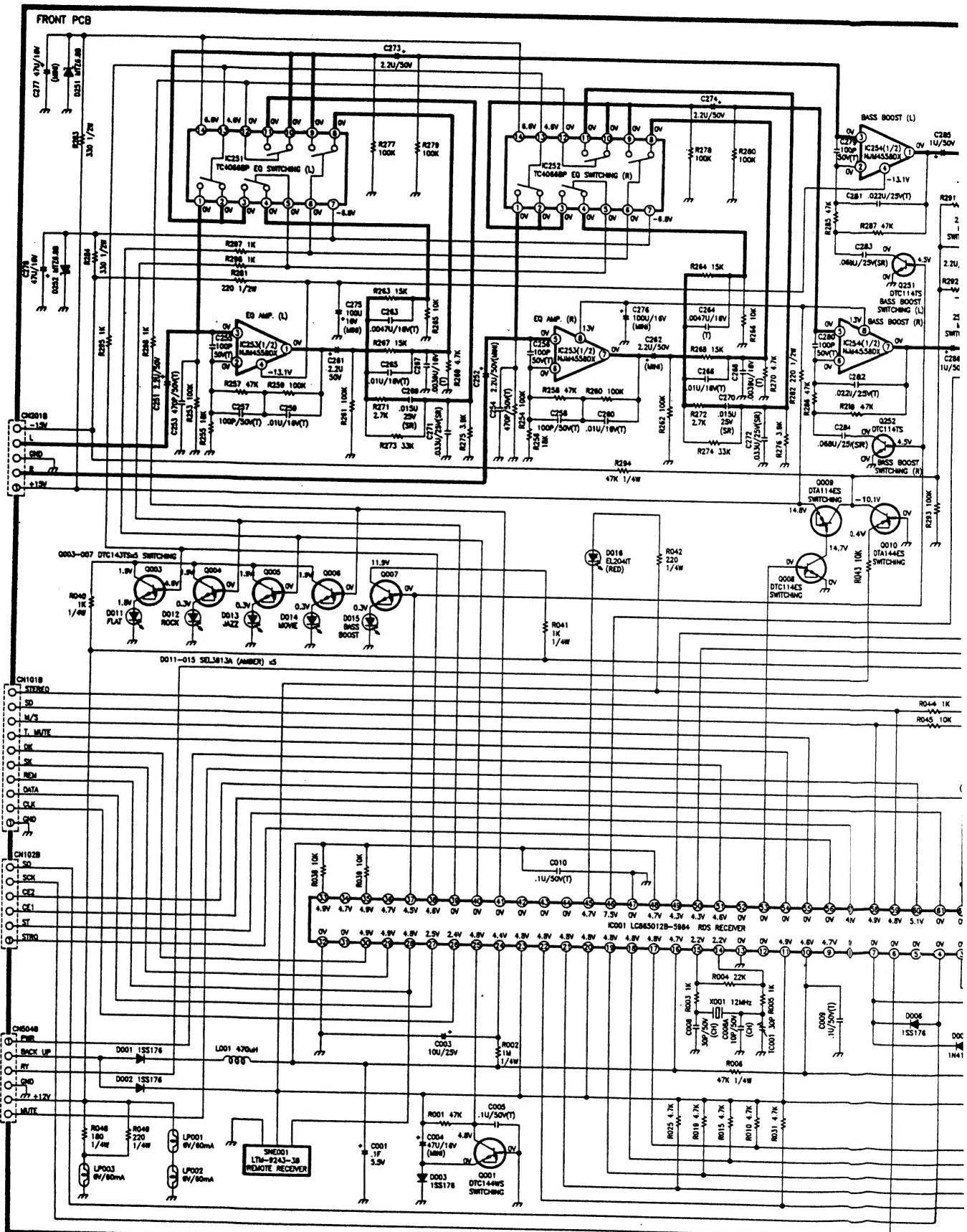
1. THE DC VOLTAGES WERE TAKEN WITH NO SIGNAL INPUT.
 2. RESISTANCE VALUES ARE IN OHMS (K=1000, M=MEGOMA).
 3. UNLESS OTHERWISE NOTED, ALL RESISTORS ARE 1/8 WATT CARBON FILM, $\pm 5\%$ TOLERANCE.
 4. ALL VOLTAGES MEASURED FROM GROUND WITH A HIGH IMPEDANCE METER (10 MEGOHMS MIN).
 5. (T)=MULTI-LAYER CERAMIC CAPACITOR.

6. REFER TO PARTS LIST FOR VOLTAGE RATINGS OF CAPACITORS.
 7.  = COMMON GROUND SYMBOL.
 8. _____ = INDICATES SIGNAL PATH OF CIRCUIT
 9. _____ = INDICATES SIGNAL PATH OF AM MODE.
 10. TO LOCATE CONNECTOR HOOKUPS MATCH THE ALPHA (OR NUMERIC) DESIGNATION TO THE CORRESPONDING ALPHA (OR NUMERIC) DESIGNATION (EXAMPLE: CONNECTOR A CONNECTS TO CONNECTOR A).

DTA114YS
OTC114YS
DTA114ES
OTC114ES
OTC114TS

2SK192AY
D S G

Schematic



Schematic Diagram- Front

